

in the mobile communication system with the high transfer speed under such a circumstance that the frequency selective fading cannot be neglected, the reception performance can be brought into better performance.

5 Also, sixteenth aspect of the present invention, ~~as recited~~

Ey

~~in Claim 16~~ is featured by that in a base station wireless apparatus equipped with a waveform equalizer capable of removing an adverse influence caused by frequency selective fading, the waveform equalizer is comprised of: an equalizing filter unit constructed

10 by a delay circuit having a tap; a discriminator for decoding an output signal of the equalizing filter unit; tap arrangement control means for controlling a tap arrangement of the equalizing filter unit; and a tap coefficient monitoring unit for monitoring a tap coefficient of the equalizing filter unit; wherein: the
15 tap arrangement of the equalizing filter unit is changed so as to restart reception signal equalizing steps from a preselected step prior to the present step thereof while the reception signal is equalized, depending upon a change state of the tap coefficient during the equalization of the reception signal; and further
20 so as to repeatedly perform the operation, depending upon a change condition of the tap coefficient while restarting the equalization of the reception signal.

With employment of the above-described arrangement, in such a case that the equalization cannot be carried out under the
25 initially set tap arrangement due to the variation of the transfer path, after the structure of the equalizer suitable for the